Claim Amendments

Please amend claims 1, 2, 9, 17, and 23 as follows:

:

Listing of Claims

1. (currently amended) A primer tank for generating a primer vapor for treating a substrate with reduced primer droplet formation and improved deposition uniformity of said primer vapor on said substrate comprising:

a tank body for containing a liquid primer to form a planar exposed surface of said liquid primer, said <u>planar</u> exposed surface comprising a liquid vapor interface; and,

a nozzle assembly comprising a nozzle plate, said nozzle plate comprising a plurality of openings, said plurality of openings disposed above said <u>planar</u> exposed surface and arranged for directing a plurality of gas streams <u>in a planar</u> dispersed pattern onto said <u>planar</u> exposed surface to form said primer vapor in a vapor collection space above said liquid vapor interface.

2. (currently amended) The primer tank of claim 1 wherein said nozzle assembly further comprises:

a gas inlet pipe for receiving a primary gas stream and

said nozzle plate provided in downstream fluid communication with said gas inlet pipe;

wherein said nozzle plate comprises said plurality of openings <u>forming a radially dispersed pattern</u> for dividing said primary stream into said plurality of gas streams.

- 3. (original) The primer tank of claim 1 further comprising a level sensor provided in said tank body for sensing a level of the liquid primer in said tank body.
- 4. (canceled)
- 5. (previously presented) The primer tank of claim 1 further comprising a vapor outlet for distributing the primer vapor from said vapor collection space to a downstream process.

Claims 6-8 (canceled)

9. (currently amended) A primer tank for generating a primer vapor for treating a substrate with improved deposition uniformity of said primer vapor on said substrate, comprising:

a tank body for containing a liquid primer to form a planar exposed surface of said liquid primer; and,

a nozzle assembly provided in said tank body, said nozzle assembly having a gas inlet pipe for receiving a primary gas stream;

a housing having a housing interior provided in fluid communication with said gas inlet pipe; and

a nozzle plate in downstream fluid communication with said housing, said nozzle plate having a plurality of openings for receiving the primary gas stream and ejecting a plurality of secondary gas streams in a planar dispersed pattern onto said planar exposed surface of said liquid primer to create a primer vapor in a vapor collection space above said exposed surface.

- 10. (original) The primer tank of claim 9 further comprising a level sensor provided in said tank body for sensing a level of the liquid primer in said tank body.
- 11. (original) The primer tank of claim 9 further comprising a vapor outlet tube provided in fluid communication with said tank

body for distributing the primer vapor from said tank body.

- 12. (canceled)
- 13. (previously presented) The primer tank of claim 9 wherein said plurality of openings are arranged in a plurality of radially-extending rows on a plate surface of said nozzle plate, said plate surface arranged above said exposed surface.

Claims 14-16 (canceled)

17. (currently amended) A method of generating a primer vapor from a liquid primer for treating a substrate to reduce primer vapor droplet formation and improved deposition uniformity of said primer vapor on said substrate comprising the steps of:

providing a primer tank having a tank body;

providing the liquid primer in said tank body to form a planar exposed surface of said liquid primer, said exposed surface comprising a liquid vapor interface;

directing an inert gas comprising a plurality of gas streams

in a planar dispersed pattern formed from a nozzle plate comprising a plurality of openings onto said planar exposed surface to form a vapor above said liquid vapor interface, said vapor comprising said liquid primer and said inert gas; and,

transfer[[r]]ing said vapor to a downstream process to deposit said vapor on said substrate.

- 18. (original) The method of claim 17 wherein said liquid primer comprises hexamethyldisilazone.
- 19. (currently amended) The method of claim 17 wherein said plurality of gas streams are directed onto said planar exposed surface at subatmospheric pressures.
- 20. (currently amended) The method of claim 17 wherein the step of directing comprises:

providing a primary gas stream;

dividing said primary gas stream into said plurality of gas streams according to said plurality of openings, said plurality of openings comprising a radially dispersed pattern disposed

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above said planar exposed surface; and,

directing said plurality of gas streams against said <u>planar</u> exposed surface and collecting said vapor in a vapor collection space disposed above the vapor liquid interface.

- 21. (previously presented) The method of claim 20, wherein said plurality of openings are arranged in a plurality of radially-extending rows on said nozzle plate surface.
- 22. (previously presented) The method of claim 17, wherein said inert gas comprises nitrogen.
- 23. (currently amended) The method of claim 17, wherein said downstream process comprises treating a semiconductor process wafer with the primer vapor, wherein said downstream process is maintained at a relatively lower pressure than the vapor collection space.
- 24. (previously presented) The primer tank of claim 5, wherein said downstream process is maintained at a lower pressure relative to said vapor collection space.

25. (previously presented) The primer tank of claim 1 wherein said plurality of openings are arranged in a plurality of radially-extending rows on said nozzle plate surface.